

Building Systems Commissioning Technician Seminar (BSC CxCT)

May 2- 4, 2022

Oklahoma City, OK

Location:

**Sheet Metal Workers' JAC of
Western Oklahoma**

3909 Willow Springs Ave

Oklahoma City, OK 73112

This Seminar is Designed for:

- Entry-level professionals who are interested in advancing their knowledge of the technical commissioning test procedures required to effectively commission HVAC.
- Professionals seeking to enhance their knowledge of technical testing and troubleshooting of building systems.
- Experienced commissioners seeking to enhance their knowledge.

Registration Deadline:

April 2, 2022





Our COVID-19 Response Plan

Considering COVID-19, NEBB has taken several proactive steps to help ensure the health and safety of our attendees and instructors. Precautions such as constant sanitization of the seminar area increased attention to high-touch areas in the rooms, limits on the number of attendees during the seminar, and protective gear for our Instructors are in place. NEBB also will be practicing social distancing and maintaining 6 feet apart. **NEBB follows local county recommendations.**

Responsibilities for Each Attendee:

- If you are experiencing any symptoms of COVID-19 like running a fever, coughing, or shortness of breath, please do not attend the seminar.
- You have been exposed to someone who has tested positive for COVID-19 in the last 14 days.
- You have a compromised immune system or are considered “high risk.”
- Masks are required during the seminar and gloves can be worn if desired.
- Sanitize hands prior to entering seminar location.
- Avoid shaking hands or engaging in any unnecessary physical contact.
- Signing a waiver prior to the seminar.





Seminar Instructors:



Curtis Anthony

Curtis Anthony is a Senior Associate at Newcomb & Boyd Consultants and Engineers. He is a past Board member of NEBB and former Chairman of NEBB's Cx Committee. He has more than 30 years of experience in Mechanical Construction, TAB, Building Systems Commissioning, and specialized containment disciplines. Curtis began his own company in 1992-2020, TAB/ Optimum Energy Solutions, Inc. Curtis has an array of experience in various building types, including, health care and Bio safety laboratory facilities. Curtis has been a member of the Commissioning committee since 2013 and was instrumental in the development of various handbooks and Standards, including, the new S110, and S120 standard. NEBB Certified Professional Credentials include TAB, Cx, RCx, FH, S&V, and is an Advanced NSF accredited certifier of Class 2 Bio Safety Cabinets.



Bill Kinser

Bill Kinser is the President and CEO of ES2 a building automation, Cx, and TAB company. He is a registered professional engineer who provided mechanical design build services. Bill has held multiple NEBB certifications for over 20 years. His entire 32-year career has been in commercial construction and the HVAC industry.





About This Seminar:

The technical commissioning process is an important aspect of the environmental industry and is a growth opportunity for those wanting to:

- Pursue their professional development in this segment of the industry
- Learn about performing system testing for commissioning and retro commissioning process
- View demonstration in testing procedures provided in the technical commissioning process
- Make first steps toward the Building Systems Commissioning CxCP

The goal of this seminar is to provide the knowledge for individuals to become successful technicians working under a NEBB Certified Professional and encourage the pursuit of Cx Technician certification. Those attending must have a base knowledge of commissioning work.

Learning Objectives

- Fundamental knowledge of building systems commissioning
- Understanding of performing Pre-Functional and Functional Tests
- Air and water system troubleshooting
- Handling report preparation
- Team concept when deciding upon corrective action
- Adherence to the overall safety plan
- Maintaining instruments and calibration program
- Knowledge in evaluating HVAC and control systems
- Understanding testing control systems



This Seminar has been approved for 18 Continued Education Credits



Seminar Schedule:

If you are interested in certification and/or taking the exam, please contact certification@nebb.org

Monday, May 02, 2022

(7 CECs)

7:30 am: Registration

8:00 am – 5:00 pm: Instruction.

(Lunch Provided)

Tuesday, May 03, 2022

(7 CECs)

8:00 am – 5:00 pm: Instruction

(Lunch Provided)

Wednesday, May 04, 2022

(4 CECs)

8:00 am – 12:00 pm: Instruction

(Lunch Provided)

1:00 pm – 4:00 pm: Optional Exam



Travel Information:

We recommend all attendees that are unfamiliar with the seminar location or require travel from another location review the following information prior to registering for this seminar.

Hotels:

Attendees can reservations directly with the hotel of their choice. Below is a shortlist of hotels near the training center. Hotel and transportation costs are not covered by the seminar registration fee.

Tru by Hilton Oklahoma City NW Expressway

4100 Northwest Expy
Oklahoma City, OK 73116
405-286-0407

[Booking Link](#)

Hampton Inn Oklahoma City- Northwest

3022 Northwest Expy
Oklahoma City, OK
73112
405-947-0953

[Booking Link](#)

Airport:

Will Rogers World Airport (OKC): 10 miles from the facility; 15 minutes average drive time; \$20 average taxi fare.

Important Dates and Times:

Arrival in Oklahoma City, OK

Sunday, May 01, 2022

Seminar Dates:

Monday - Wednesday, May 02 – 04, 2022

Optional Exam

Wednesday, May 04, 2022

Seminar Location:

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3909 Willow Springs Ave
Oklahoma City, OK 73112



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NEBB MAY CxCT SEMINAR REGISTRATION FORM

Registration form and payment must reach the NEBB office on or before April 02, 2022.

Pre-registration and payment of fees are necessary to ensure your participation in the seminar.

Three ways to register:

1. Online through the [Certelligence Portal](#)
2. Email this form to training@nebb.org, or
3. Mail this form to: NEBB, 8575 Grovemont Circle, Gaithersburg, MD 20877.

Name: _____

Date: _____

Company: _____

Address: _____

City, State, Zip: _____

Phone/Cell: _____

Fax: _____

Email: _____

Chapter: _____

Please list any dietary restrictions:

Seminar Fees (Check all that apply)

\$850 CxCT Seminar Registration Fee

\$ _____ Total Amount Paid

Publication Fees

\$200 NEBB/ \$250 Non-NEBB: Environmental Systems Technology

\$90 NEBB/\$150 Non-NEBB: NEBB Commissioning Technicians

\$150 NEBB/ \$200 Non-NEBB: Handbook for Energy & Water Calculations, includes CD with Energy Calculations

\$125 NEBB/Non-NEBB: ANSI/NEBB S120:2019, Third Edition Technical Retro Commissioning of Existing Buildings (Hard copy or Electronic)

Payment Method

Check enclosed made payable to NEBB

Visa MasterCard American Express

Name on Card _____

CC Number _____

Expiration Date _____

Security Code _____

Signature _____

**Prices for publications do not include shipping and handling*

Cancellation Policy: Cancellation by registrants, regardless of reason, will be subject to a \$250 service charge to cover NEBB's expenses. A refund of the prepaid registration will be made less the \$250 service charge. No Shows or late cancellations (those who registered for the seminar who do not cancel at least 14 days prior to the seminar and subsequently do not attend the course) will forfeit the entire registration fee unless a replacement can be found. NEBB reserves the right to cancel any seminars having insufficient registrants, in which case, all prepaid registration fees will be refunded in full. Please advise NEBB and your hotel of your cancellation as soon as possible.





Seminar Attendee Requirements:

To achieve the best educational experience, attendees are asked to read the following recommended materials BEFORE attending the training seminar. It is assumed that all attendees have a thorough working knowledge of the requirements of these NEBB publications prior to attending the seminar.

- Attendees should have basic system knowledge of HVAC and Building Automation System Operations
- Attendees are highly encouraged to bring all the publications below to the seminar.
- Attendees are required to bring a laptop with Windows operating system, Adobe Acrobat, Microsoft Word, Microsoft Excel and have working knowledge of the software prior to attending the seminar.
- Attendees will need to bring a calculator.
- Attendees taking the CxCT test should bring all publications allowed for reference during the test.

Important Reminders:

1. Registrations will be filled on a “first come-first served” basis.
2. Seminar fees include course instruction, lunch, am/pm breaks.
3. **Seminar fees do not include anything pertaining to certification. For information on certification or exams please contact certification@nebb.org.**

Recommended Publications:

To achieve the best learning results, it is highly recommended that attendees **read the following publications BEFORE** attending the seminar:

- [NEBB Fundamental Formulas](#)
- Commissioning Technician’s Handbook
- ANSI/NEBB S110-2019, Second Edition: Whole Building Technical Commissioning of New Construction
- ANSI/NEBB S120-2019, Third Edition: Technical Retro-Commissioning of Existing Buildings
- NEBB’s Procedural Standards for Testing, Adjusting and Balancing of Environmental Systems
- Environmental Systems Technology
- [Honeywell Engineering Manual of Automatic Control of Commercial Buildings \(free download\)](#)

The instructor assumes that all attendees have a thorough working knowledge of the requirements of these NEBB publications prior to attending the seminar. Publications can be purchased online at www.nebb.org.



Questions About This Seminar?

Call 301-977-3698 or email training@nebb.org